

SOUTH TEXAS WEATHER MODIFICATION ASSOCIATION - PLEASANTON, TEXAS

SEEDING REPORT - MAY 29, 2009

SYNOPTIC/MESOSCALE CONDITIONS:

Upper level trough eastern half of U.S. while a ridge was located over the western states; upper level low off the southern California coast; weak upper level disturbance over northern Mexico moving east toward south Texas; surface high over central Texas with surface cold front in northwestern Gulf; stalled outflow boundary across western/central target area from early morning MCS; moderate instability, with CAPE values in excess of 1500 J/kg and LI's to -6; PW values 1.43" to 1.65".

LIFTING MECHANISM:

Strong surface heating; lift from approaching shortwave; convergence along outflow boundary.

DISCUSSION:

Early in the afternoon convection began to form along the Balcones Escarpment, with clouds building in Bandera and northern Bexar counties. A flight was dispatched to the area but the clouds were fuzzy with not much definition and no inflow. Clouds in Frio County were also looked at but were also unsuitable for seeding. Plane RTB. An hour later, convection began to develop in southern Frio and northern McMullen counties, and another flight was launched, with clouds in both counties being seeded. In the case of the S Frio Co. clouds, the seeding was actually done just across the county line in LaSalle County, but the clouds were affecting primarily S Frio Co. around Dilley over to near Hindes. A third flight was dispatched as convection in western Bexar County had finally exited the San Antonio International Airport's approach airspace, heading S. Randomization was not done as several large clouds were close together. This plane then headed south to McMullen and Live Oak counties as previously seeded convection in S Frio and N McMullen was moving SE, with additional seeding done in E McMullen and W Live Oak counties. Plane RTB. Late in the afternoon a cell began to develop rapidly in southern Medina County between Hondo and Pearsall. This cloud fit the randomization protocol and it was enacted.

WATCHES/WARNINGS/LIMITATIONS:

Severe T-storm - N-cent. Frio/SE Medina Cos.: 2255-2345 UTC.

The pyrotechnics were 40g flares. 22 flares were burned in McMullen (11), LaSalle (7), Medina (2) and Live Oak (2) counties, totaling 880g of AgI. An additional 10 "potential" flares were burned in Frio County, totaling 400g of AgI.